



START

Department of Energy

Richland Operations Office
P.O. Box 550
Richland, Washington 99352

0017761

9106035

OCT 24 1991

91-WOB-356

Mr. Timothy L. Nord
Hanford Project Manager
State of Washington
Department of Ecology
Mail Stop PV-11
Olympia, Washington 98504

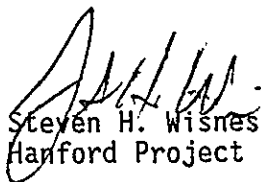
Dear Mr. Nord:

LIQUID EFFLUENT RETENTION FACILITY

Reference: Letter, T. M. Nord, Washington State Department of Ecology, to
S. H. Wisness, Department of Energy, "Liquid Effluent Retention
Facility," dated September 23, 1991 ✓

The reference letter noted three issues you felt needed to be brought to
our attention concerning the Liquid Effluent Retention Facility (LERF).
Responses to these issues are individually addressed in the attached.
Questions on this should be directed to Lance Mamiya on (509) 376-1471.

Sincerely,


Steven H. Wisness
Hanford Project Manager

WMD:TMH

Attachment

cc w/att:
P. Stasch, Ecology
G. Anderson, Ecology
M. Jaraysai, Ecology
T. Michelena, Ecology
D. E. Kelley, WHC
T. B. Veneziano, WHC



Bliss, Level 1
Hamilton, Assignee
RE Borneman



22121630325

Attachment

1. We maintain the existing certification is still a valid certification since it meets the requirements of WAC 173-303-650(4)(c)(i) and (ii). To prevent additional effort by both our staff, we are providing a new certification of the integrity of the dikes as specified in your letter dated July 17, 1991 (Attachment 1A).
2. Notifications have been, and will continue to be, provided to Paul Stasch of your staff regarding significant construction activities. The LERF construction schedule and an update were provided to Ecology in September 1991. An activity notification covering the next two weeks is faxed to Paul Stausch every Monday.
3. The set of analytical results of liner material tests specified in the approved CQA plan are being provided (Attachment 1B). This data has previously been given to Moses Jaraysai of your Kennewick staff. Additional data will be provided to Ecology.

22124630326

**KAISER
ENGINEERS
HANFORD**

KAISER ENGINEERS HANFORD COMPANY
POST OFFICE BOX 888
RICHLAND, WASHINGTON 99352

REG. NO KAISEEH1348M

CERTIFICATION OF QUALIFIED ENGINEER

In accordance with WAC 173-303-650(4)(c)(i) and (ii), I, Edgar A. Goakey, P.E. certify that the dike portion of the W-105 Project Design has structural integrity. Specifically:

- (i) The dike will withstand the stress of the pressure exerted by the types and amounts of wastes to be placed in the impoundment; and
- (ii) The dike will not fail due to scouring or piping, without dependence on any liner¹ system included in the surface impoundment.

This certification is based upon the independent analysis of the structural integrity of the dike as set forth in attachment #1 of Kaiser Engineers Hanford letter W-105-124 dated September 11, 1991.

DATED THIS 12 day of September, 1991.

Kaiser Engineers Hanford, Co.



Edgar A. Goakey
Edgar A. Goakey,
Professional Engineer

¹. The soil /bentonite liner has not been considered as contributing to the integrity of the dike structure.

92121630327



PERCENT CARBON BLACK LABORATORY REPORT

TRI/Environmental, Inc.
9063 Bee Caves Road
Austin, TX 78733

Method: ASTM D1603
TRI Log No: 415-102-1
Kaiser Proj. No.: B714 & W105
Sample: B714-M5
W105-C2-20
thru C2-23
Test Date: 9-24-91
Report Date: 9-27-91

Kaiser Engineers Hanford Co.
Attn: Mr. Larry Gaddis
801 First Street
Richland, WA 99352

Sample Number	Percent Carbon Black
B714-M5	2.00
C2-20	1.96
C2-21	2.00
C2-22	1.98
C2-23	1.89

DW
Quality Review

The testing herein is based upon accepted industry practice as well as by the test method listed.
TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material.

92122630328

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author

Addressee

Correspondence No.

S. H. Wisness, RL

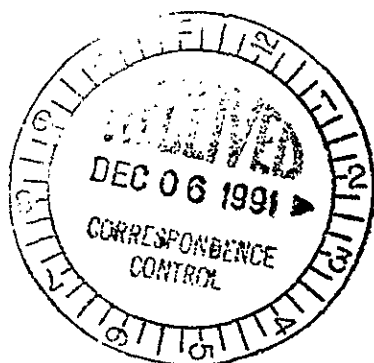
T. L. Nord, Ecology

Incoming: 9106035

Subject: LIQUID EFFLUENT RETENTION FACILITY

INTERNAL DISTRIBUTION

Approval	Date	Name	Location	w/att
		Correspondence Control	A3-01	X
		R. J. Bliss, Level 1	B3-04	X
		L. E. Borneman	B2-35	X
		L. C. Brown	H4-51	X
		C. J. Geier	H4-57	X
		W. H. Hamilton, Assignee	N3-10	X
		H. D. Harmon	R2-52	X
		K. R. Jordan	B3-51	X
		M. K. Korenko	B3-08	X
		R. E. Lerch	B2-35	X
		P. J. Mackey	B3-15	X
		H. E. McGuire	B3-63	X
		L. L. Powers	B2-35	X
		T. B. Veneziano	B2-35	X
		R. D. Wojtasek	B2-15	X
		EDMC	H4-22	X



M-17-00

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